

IN THE CLAIMS:

Please cancel Claims 3, 14, 19, 24, and 38, without prejudice or disclaimer of the subject matter presented therein.

Please amend Claims 1, 2, 4, 5, 7-13, 15, 17, 18, 20-23, 25-29, 31-37, 39, and 41-51 as follows:

Sub C
1. (Amended) A data transmission method for host and target devices[,] connected by a serial bus, said method comprising the steps of:

performing bi-directional communication between [said] the host and target devices; and

selectively setting a data transfer method to be performed from a plurality of data transfer methods including a [PULL model in which said target device reads data from said host device, based on] synchronous transfer method, which performs flow control, and an asynchronous transfer method by using the bi-directional communication,

wherein the data transfer method is set by the host device in accordance with a data transfer method set in the target device.

2. (Amended) The method according to claim 1, wherein the plurality of data transfer methods [further include]

includes a PULL model, in which the target device reads data from the host device, a response model, in which a response is returned in a unit of block transfer, a simplified response model, in which a response of the simplified response model is to simplify, a [Push] PUSH model, in which [said] the host device writes data into [said] the target device, and an [Isochronous] isochronous model [using], which uses an isochronous transfer.

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4. (Amended) The method according to claim [1] 2, wherein the PULL model is a PULL data transfer method in which data transfer is performed by reading data of [said] the host device by [said] the target device.

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5. (Amended) The method according to claim 1, wherein the serial bus is a bus adapted to or based on [the] IEEE 1394 standards.

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7. (Amended) The method according to claim 1, wherein [said] the host device provides image data.

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8. (Amended) The method according to claim [1] 1, wherein [said] the target device forms a visible image, based on the image data, on a print medium.

8. (Amended) The method according to claim [1] ⁶/₁,

wherein [said] the target device stores the image data into a storage medium.

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10. (Amended) An image processing apparatus

comprising:

communication means for performing communication with a target device by [the data transfer method in claim 1]:

performing bi-directional communication between a host device and the target device, and

selectively setting a data transfer method to be performed from a plurality of data transfer methods including a synchronous transfer method, which performs flow control, and an asynchronous transfer method by using the bi-directional communication, wherein the data transfer method is set by the host device in accordance with a data transfer method set in the target device; and

transmission means for transmitting image data to [said] the target device via said communication means.

11. (Amended) An image processing apparatus

comprising:

communication means for performing communication with a host device by [the data transfer method in claim 1]:

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performing bi-directional communication between
the host device and a target device, and

selectively setting a data transfer method to be
performed from a plurality of data transfer methods including a
synchronous transfer method, which performs flow control, and an
asynchronous transfer method by using the bi-directional
communication, wherein the data transfer method is set by the
host device in accordance with a data transfer method set in the
target device; and

processing means for processing image data received
from [said] the host device via said communication means.

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12. (Amended) A data transmission apparatus
connected to a serial bus, comprising:

communication means for performing bi-directional
communication with a target device; and

setting means for selectively setting a data transfer
method to be performed from a plurality of data transfer [method]
methods including a [PULL model, based on] synchronous transfer
method, which performs flow control, and an asynchronous transfer
method by using the bi-directional communication,

wherein the data transfer method is set in accordance
with a data transfer method set in the target device.

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13. (Amended) The apparatus according to claim 12,
wherein the plurality of data transfer methods [further include]
includes a PULL mode, in which the target device reads data from
the apparatus, a response model, in which a response is returned
in a unit of block transfer, a simplified response model, in
which a response of the simplified response model is to simplify,
a PUSH model, in which the apparatus writes data into the target
device, and an isochronous model, which uses an isochronous
transfer.

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14. (Amended) The apparatus according to claim 13,
wherein the PULL model is a PULL data transfer method in
which data transfer is performed by reading data of [said host
device] said apparatus by [said] the target device.

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17. (Amended) A data transmission apparatus
connected to a serial bus, said apparatus comprising:
communication means for performing bi-directional
communication with a host device; and
transfer means for performing data transfer with
[said] the host device by a data transfer method selectively set
from a plurality of data transfer [method] methods including a
[PULL model, based on] synchronous transfer method, which
performs flow control, and an asynchronous transfer method by

using the bi-directional communication,

wherein the data transfer method is set by the host device in accordance with a data transfer method set in the apparatus.

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18. (Amended) The apparatus according to claim 15,

wherein the plurality of data transfer methods [further include] includes a PULL model, in which said apparatus reads data from the host device, a response model, in which a response is returned in a unit of block transfer, a simplified response model, in which a response of the simplified response model is to simplify, a PUSH model, in which the host device writes data into said apparatus, and an isochronous model, which uses an isochronous transfer.

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16 20. (Amended) The apparatus according to claim [17] 18, wherein the PULL model is a PULL data transfer method in which data transfer is performed by reading data of [said] the host device by said [target device] apparatus.

21. (Amended) The apparatus according to claim 17, further comprising formation means for forming a visible image on a print medium based on data received by said transfer means [on a print medium].

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22. (Amended) A data transmission system for transferring data through a serial bus, comprising:

communication means for performing bi-directional communication between host and target devices; and

setting means for selectively setting a data transfer method to be [set] performed from a plurality of data transfer methods, including a [PULL model, based on] synchronous transfer method, which performs flow control, and an asynchronous transfer method by using the bi-directional communication,

wherein the data transfer method is set by the host device in accordance with a data transfer method set in the target device.

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23. (Amended) The system according to claim 19, wherein the plurality of data transfer methods [further include] includes a PULL model, in which the target device reads data from the host device, a response model, in which a response is returned in a unit of block transfer, a simplified response model, in which a response of the simplified response model is to simplify, a PUSH model, in which the host device writes data into the target device, and an isochronous model, which uses an isochronous transfer.

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25. A data transmission method of host and target

devices which are connected by a serial bus, said method comprising the steps of:

transferring data from [said] the host device to [said] the target device, by using a transfer method selected by the host device from an isochronous transfer [or] method and an asynchronous transfer method in accordance with a data transfer method set in the target device; and

transferring a procedure signal for transfer of the data to [said] the host and target devices by a common asynchronous transfer.

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26. (Amended) The method according to claim 25,
wherein the asynchronous transfer method includes a Push Buffer model, in which [said] the host device writes data into [said] the target device, and a Pull Buffer model, in which [said] the target device reads data from [said] the host device.

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27. (Amended) The method according to claim 25,
wherein said host device sets [a] the data transfer method corresponding to [said] the target device, based on the procedure signal transferred [by] in the common asynchronous transfer.

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28. (Amended) The method according to claim 25,
wherein [said] the host device selects the [isochronous transfer

or the asynchronous] data transfer method based on the procedure
signal transferred [by] in the common asynchronous transfer.

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29. (Amended) The method according to claim 21,
wherein the serial bus is a bus adapted to or based on [the] IEEE
1394 standards.

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31. (Amended) The method according to claim 21,
wherein [said] the host device provides image data.

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32. (Amended) The method according to claim 21,
wherein [said] the target device forms a visible image[,] on a
print medium based on the image data[, on a print medium].

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33. (Amended) The method according to claim [25] 31,
wherein [said] the target device stores the image data into a
storage medium.

34. (Amended) An image processing apparatus
comprising:
communication means for performing communication with
a target device by [the data transfer method in claim 25]
transferring data from a host device to the
target device, by using a transfer method selected by the host

device from an isochronous transfer method and an asynchronous transfer method in accordance with a data transfer method set in the target device, and

transferring a procedure signal for transfer of the data to the host and target devices by a common asynchronous transfer; and

transmission means for transmitting image data to [said] the target device via said communication means.

35. (Amended) An image processing apparatus comprising:

communication means for performing communication with a host device by [the data transfer method in claim 25]

transferring data from the host device to a target device, by using a transfer method selected by the host device from an isochronous transfer method and an asynchronous transfer method in accordance with a data transfer method set in the target device, and

transferring a procedure signal for transfer of the data to the host and target devices by a common asynchronous transfer; and

processing means for processing image data received from [said] the host device via said communication means.

36. (Amended) A data transmission apparatus
connected to a serial bus, comprising:

transfer means for transferring a procedure signal
for data transfer by a common asynchronous transfer [common] to a
target device; and

transmission means for transmitting data to be
transmitted to [said] the target device by using a transfer
method, which is selected from an isochronous [transmission or]
transfer method and an asynchronous [transmission] transfer
method, in accordance with a data transfer method set in the
target device.

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37. (Amended) The apparatus according to claim ³¹35,
wherein the [isochronous] asynchronous transfer method includes a
PUSH buffer model and a PULL buffer model.

39. (Amended) The apparatus according to claim 36,
wherein said transmission means selects the isochronous transfer
method or the asynchronous transfer[,]
method based on the
procedure signal transferred by the common asynchronous transfer.

41. (Amended) A data transmission apparatus
connected to a serial bus, comprising:

transfer means for transferring a procedure signal

for data transfer by a common asynchronous transfer [common] to a host device; and

reception means for receiving data from [said] the host device by using a transfer method selected by the host device from an isochronous transfer [or] method and an asynchronous transfer method in accordance with a data transfer method set in said apparatus.

37 42. (Amended) The apparatus according to claim 41, wherein the asynchronous transfer method includes a PUSH buffer model and a PULL buffer model.

sub B 37 43. (Amended) The apparatus according to claim 41, wherein [said] the host device sets [a] the data transfer method corresponding to said reception means[,] based on the procedure signal transferred by the common asynchronous transfer.

39 44. (Amended) The apparatus according to claim 41, wherein [said] the host device selects the [isochronous transfer or the asynchronous] data transfer method based on the procedure signal transferred by the common asynchronous transfer.

sub B 45. (Amended) The apparatus according to claim 41, further comprising formation means for forming a visible image on

a print medium based on data received by said reception means [on a print medium].

46. (Amended) A data transmission system for transferring data through a serial bus, comprising:

first transfer means for transferring a procedure signal for data transfer by common asynchronous transfer to host and target devices; and

second transfer means for performing data transfer between said host and target devices by using a transfer method selected by the host device from an isochronous transfer [or the] method or an asynchronous transfer method in accordance with a data transfer method set in the target device.

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47. (Amended) The system according to claim 46,
wherein the asynchronous transfer method includes a PUSH Buffer model and a PULL Buffer model.

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48. (Amended) The system according to claim 46,
wherein [said] the host device sets [a] the data transfer method corresponding to [said] the target device, based on the procedure signal transferred by the common asynchronous transfer.

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49. (Amended) The system according to claim 46,

wherein [said] the host device selects the [isochronous transfer or the asynchronous] data transfer method based on the procedure signal transferred by the common asynchronous transfer.

50. (Amended) A computer program product comprising a computer readable medium [having] storing computer program codes[,] for executing data transmission of host and target devices which are connected by a serial bus, said product comprising:

communication process procedure codes for performing bi-directional communication between [said] the host and target devices; and

setting process procedure codes for selectively setting a data transfer method to be performed from a plurality of data transfer methods including a [PULL model] synchronous transfer method, which performs flow control, and an asynchronous transfer method by using the bi-directional communication,

wherein the data transfer method is set by the host device in accordance with a data transfer method set in the target device.

51. (Amended) A computer program product comprising a computer readable medium [having] storing computer program codes[,] for executing data transmission of host and target